

Title (en)

AUTONOMOUS EMERGENCY BRAKING (AEB) BASED ON VEHICLE TURN STATE

Title (de)

AUTONOME NOTBREMSUNG BASIEREND AUF DEM WENDEZUSTAND DES FAHRZEUGS

Title (fr)

FREINAGE D'URGENCE AUTONOME (AEB) BASÉ SUR L'ÉTAT DE VIRAGE DU VÉHICULE

Publication

**EP 4122781 A1 20230125 (EN)**

Application

**EP 22186446 A 20220722**

Priority

US 202117382491 A 20210722

Abstract (en)

A method of implementing autonomous emergency braking (AEB) for advanced driver-assistance systems (ADAS), the method includes receiving one or more first inputs and identifying one or more targets external to a host vehicle based on the one or more first inputs. The method further includes receiving one or more second inputs related to a turning status of the host vehicle and detecting a U-turn state associated with the host vehicle based on the one or more second inputs. The AEB algorithm may be modified in response to the detected U-turn state, wherein the AEB algorithm initiates an AEB event as necessary to avoid collisions with the one or more identified targets.

IPC 8 full level

**B60T 7/22** (2006.01); **B60W 30/09** (2006.01); **B60W 30/095** (2006.01); **B60W 50/10** (2006.01)

CPC (source: EP US)

**B60T 7/22** (2013.01 - EP US); **B60T 8/171** (2013.01 - US); **B60T 8/172** (2013.01 - US); **B60W 30/09** (2013.01 - EP); **B60W 30/095** (2013.01 - EP); **B60W 50/10** (2013.01 - EP); **B60T 2201/022** (2013.01 - EP); **B60T 2201/03** (2013.01 - US); **B60T 2210/30** (2013.01 - EP); **B60T 2210/32** (2013.01 - US); **B60T 2220/00** (2013.01 - US); **B60T 2250/00** (2013.01 - US); **B60T 2250/03** (2013.01 - US); **B60T 2260/02** (2013.01 - EP); **B60W 2510/205** (2013.01 - EP); **B60W 2520/14** (2013.01 - EP); **B60W 2540/18** (2013.01 - EP); **B60W 2552/30** (2020.02 - EP)

Citation (search report)

- [IA] US 10023187 B2 20180717 - WULF OLIVER [DE]
- [YA] EP 1223093 A2 20020717 - NISSAN MOTOR [JP]
- [YA] CN 111717192 A 20200929 - GREAT WALL MOTOR CO LTD

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 4122781 A1 20230125**; CN 115675395 A 20230203; US 11891035 B2 20240206; US 2023033316 A1 20230202

DOCDB simple family (application)

**EP 22186446 A 20220722**; CN 202210869362 A 20220722; US 202117382491 A 20210722